

F I G. 1

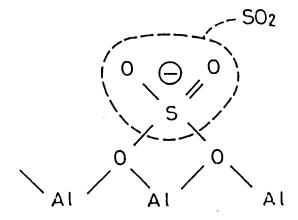


FIG. 2

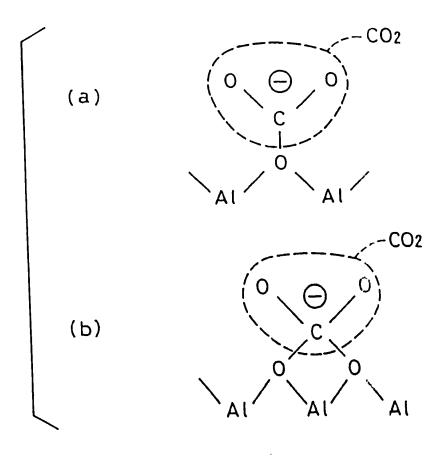
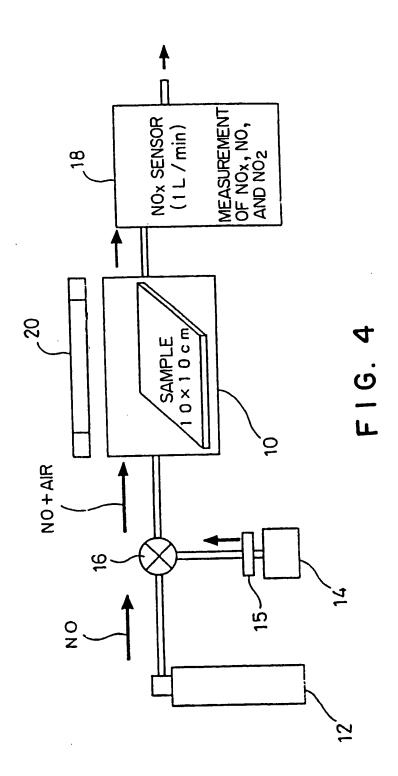
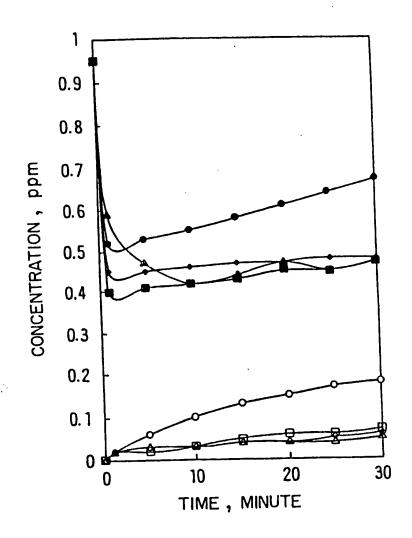
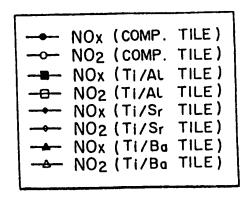


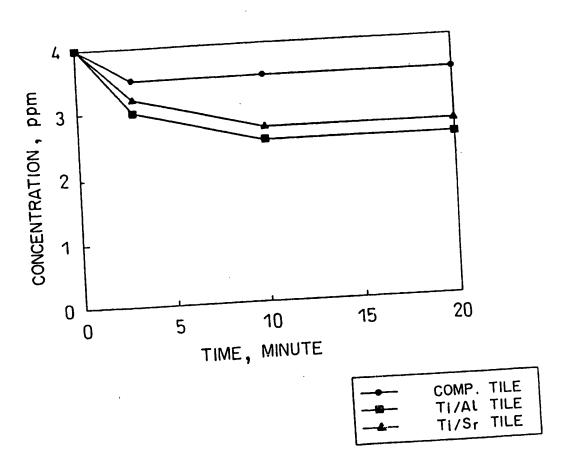
FIG. 3



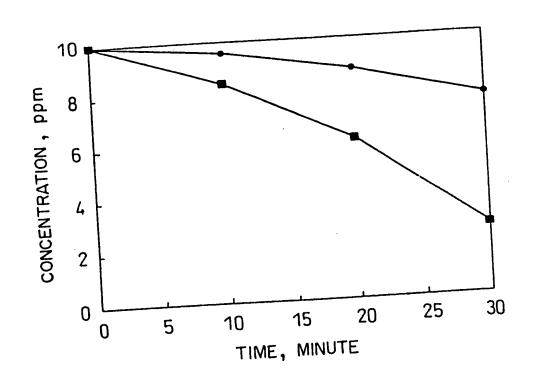


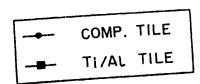


F I G. 5

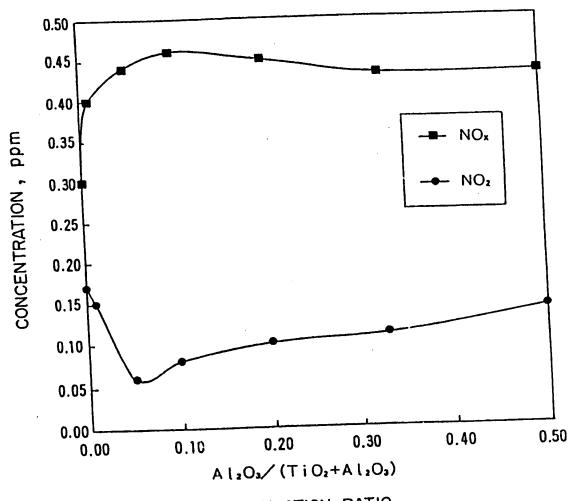


F1G.6



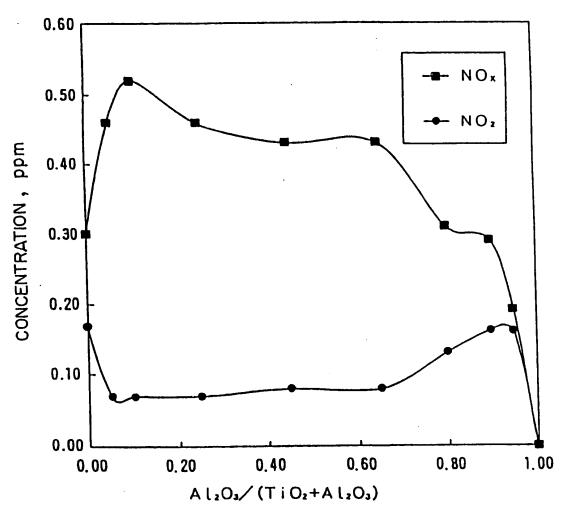


F1G. 7



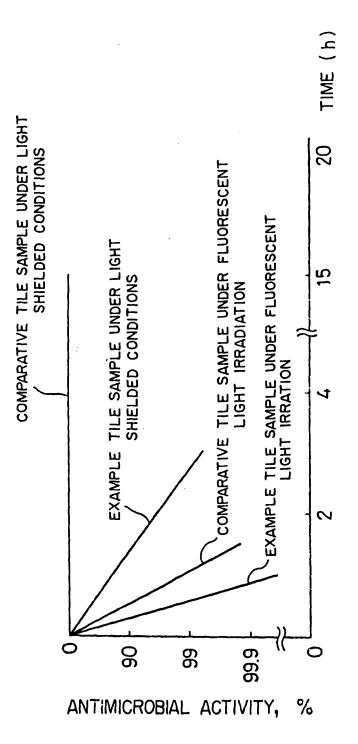
FORMULATION RATIO (TiO2: CONSTANT)

F1G. 8



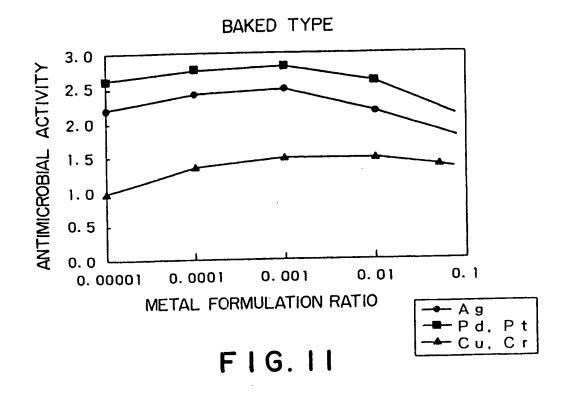
FORMULATION RATIO ( TOTAL AMOUNT OF TiO  $_2$  AND Al  $_2$  O  $_3$  : CONSTANT )

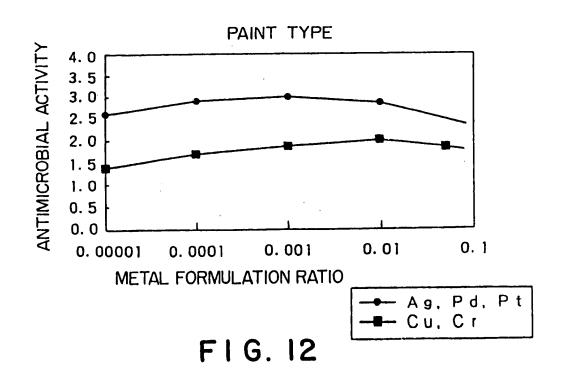
FIG. 9



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ANTIMICROBIAL ACTION AGAINST Escherichia coli





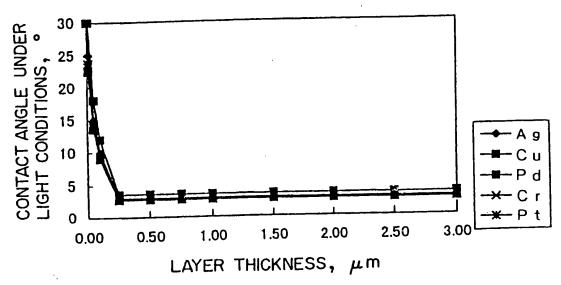
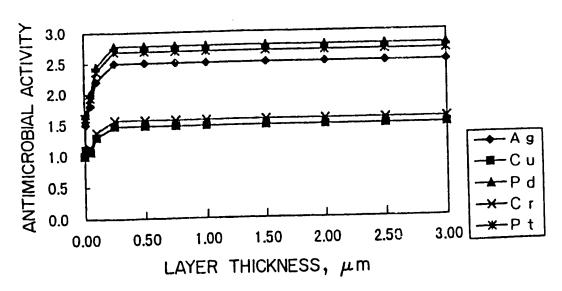
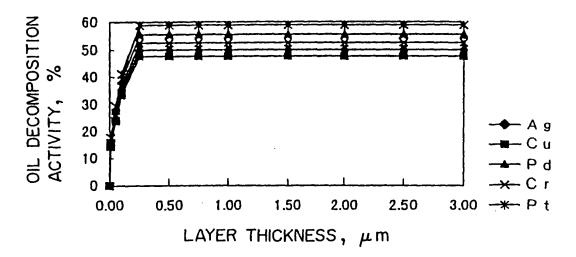


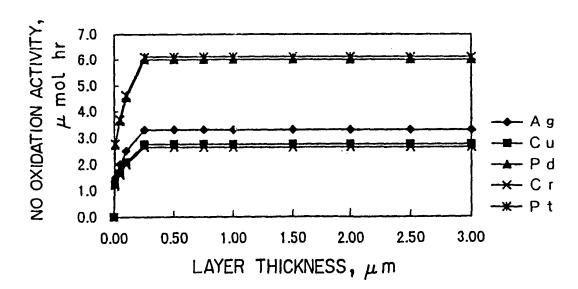
FIG. 13



F I G. 14



F I G. 15



F1G. 16

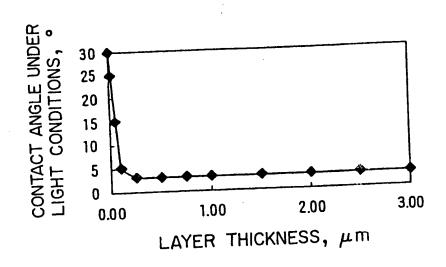


FIG. 17

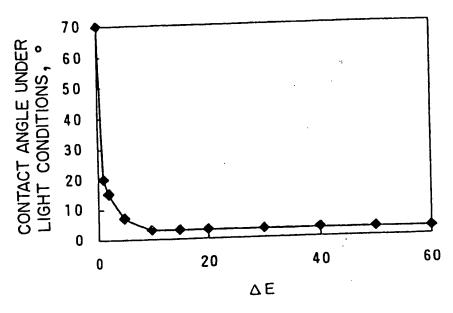


FIG. 18

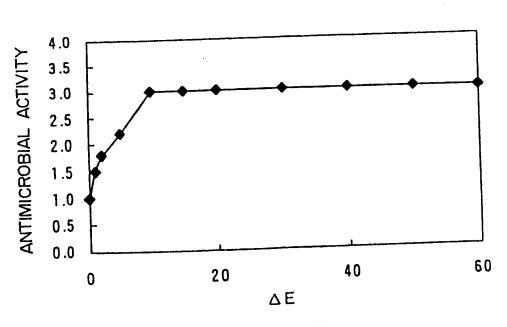
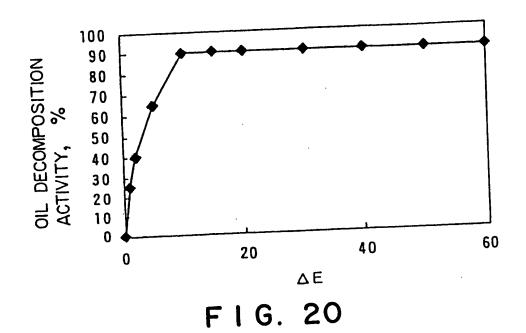
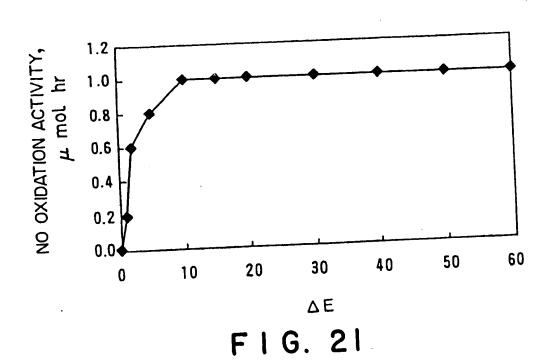
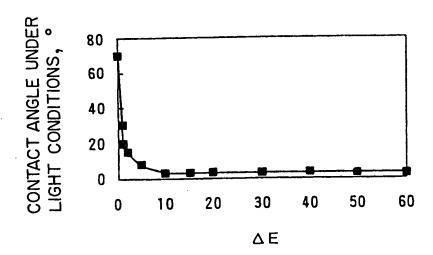


FIG. 19







F I G. 22